



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380-0001

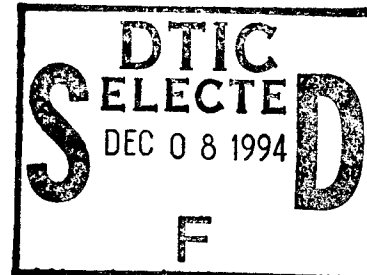
MCO 5000.11B
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21 Apr 94

MARINE CORPS ORDER 5000.11B

From: Commandant of the Marine Corps
To: Distribution List

Subj: MARINE CORPS POLICY FOR TEST AND EVALUATION OF SYSTEMS
AND EQUIPMENT

Ref: (a) DoD Directive 5000.1
(b) DoD Instruction 5000.2
(c) DoD Manual 5000.2-M
(d) SECNAVINST 5000.2A
(e) MCO 3093.1C
(f) NAVSEAINST 8020.6C
(g) MCO 5200.23A
(h) MCO 3960.2A



1. Purpose. To establish implementing guidance in accordance with references (a) through (e) for the Test and Evaluation (T&E) of systems and equipment, including subsystems and components, to be employed by the Marine Corps.

2. Cancellation. MCO 5000.11A.

3. Background. T&E policy and procedures for Department of Defense (DoD) systems acquisition are prescribed in Part 8, reference (b). Enclosure 8, reference (d) directs the Commandant of the Marine Corps (CMC) to develop and promulgate necessary implementing guidance. This Order provides that implementing guidance and is consistent with the acquisition management approach and framework prescribed in reference (a). Furthermore, this Order is not a stand-alone document and shall be used in conjunction with references (a) through (c).

a. The purpose of Developmental Test and Evaluation (DT&E) is to assist in the engineering design and to verify that the technical performance specifications have been attained.

b. The purpose of Operational Test and Evaluation (OT&E) is to determine the operational effectiveness and suitability of a system under realistic combat conditions, and to determine if the minimum acceptable operational performance requirements as specified in the operational requirements document have been satisfied.

4. Policy. Consistent with enclosure (2) of reference (d), unless waived by the Milestone Decision Authority (MDA), no new system or major modification to an existing system shall be approved for production, procurement, installation, or issue to

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the operating forces until it has been adequately tested, proven operationally effective and suitable, safe for use, determined to be logistically supportable, and interoperability certified if applicable. T&E shall begin as soon as possible in the system acquisition process, and shall be planned and conducted to provide qualitative and quantitative data and minimize subjective interpretation of system performance. The Commander, Marine Corps Systems Command (COMMARCORSSYSCOM) and Director, Marine Corps Operational Test and Evaluation Activity (MCOTEA) are the principals responsible for DT&E and OT&E, respectively, within the Marine Corps. Marine Corps organizations involved in T&E management may choose to develop internal procedures and documents required for effective planning and execution of T&E related activities. These additional procedures and documents shall not supplement, contradict or in any way deviate from the T&E requirements prescribed by the Secretary of Defense and the Secretary of the Navy.

a. Combined DT&E/OT&E. While DT&E and OT&E are separate events conducted by different test communities, a combined DT&E and OT&E approach should be used when significant cost and schedule benefits are clearly identified. However, test objectives cannot be compromised, and all tests must be performed in complete compliance with the law. Planning for combined DT&E and OT&E must be done early during test concept definition and test design to ensure efficient use of resources. Additionally, data necessary to satisfy the common needs of both the developmental activity represented by COMMARCORSSYSCOM and the Operational Test Activity (OTA) represented by Director, MCOTEA must be obtained and protected. Before the Milestone III full rate production decision can be made, sufficient Operational Test (OT) events must be completed to satisfy the requirement for an independent operational evaluation by MCOTEA. These events, occurring during the final phase of combined testing, must be dedicated to OT objectives and done without developing contractor involvement. In all cases, separate developmental and independent operational evaluations of test results will be provided.

b. T&E of Amphibious Vehicles and Systems. All DT&E of amphibious vehicles and amphibious tests of other equipment or systems used by a landing force in open seaways will be conducted by, or under the direct supervision of, the COMMARCORSSYSCOM with appropriate Naval Sea Systems Command (NAVSEASYSYSCOM) coordination. The Director, MCOTEA ensures OT&E of such systems is planned, scheduled and evaluated with appropriate coordination with Operational Test & Evaluation Force (OPTEVFOR).

c. Nondevelopmental Item (NDI). T&E requirements to support a NDI acquisition approach do not differ appreciably from the T&E requirements for a developmental program. COMMARCORSSYSCOM and the Director, MCOTEA will, respectively, determine the amount of

DT&E and OT&E required based on reliable and verifiable test data from all commercial and Government sources, and the extent of modification to the NDI.

d. T&E of Aircraft. The Chief of Naval Operations (CNO) has the responsibility to satisfy Marine Corps requirements for aircraft and Air Traffic Control (ATC) equipment as defined by the CMC. DT&E of naval aviation systems and ATC equipment is accomplished under the direction of Naval Air System Command (NAVAIRSYSCOM) and Space and Naval Warfare Systems Command (SPAWARSYSCOM), respectively, at Navy test activities, supported in some cases by selected Marine Corps units. The Commander, Operational Test & Evaluation Force (COMOPTEVFOR) has the responsibility for OT&E, ensuring the operational effectiveness, suitability, and logistics supportability of aircraft. The Director, MCOTEA has the responsibility for OT&E of ATC equipment.

e. Coordination. COMMARCORSYSCOM and the Director, MCOTEA are authorized direct liaison with CNO, COMOPTEVFOR, NAVAIRSYSCOM, NAVSEASYSCOM, and SPAWARSYSCOM for T&E matters.

5. Information

a. Test Integration Working Group (TIWG). The TIWG is established as an appropriate forum to effect T&E coordination and solve problems. The primary purposes of the TIWG is to optimize the use of T&E expertise, instrumentation, facilities, simulations, and models to implement test integration, thereby reducing costs to the Marine Corps; integrate test requirements; accelerate the Test and Evaluation Master Plan (TEMP) coordination process; mutually resolve cost and scheduling problems; provide a forum to assist those responsible for T&E documentation and execution; and ensure T&E planning, execution, and reporting are directed toward common goals. The TIWG is chaired by the MARCORSYSCOM Program Manager (PM), (except for determining Failure Definition and Scoring Criteria (FD/SC) which is chaired by MCOTEA) and consists of well-qualified T&E representatives, with authority to speak for their parent organizations. The principal members include representatives from MCCDC, MARCORSYSCOM, MCOTEA, the testing activity and test ranges, and when appropriate the contractor or material developer, Software Support Activity, USMC Intelligence Center (MCIC), and the Fleet Marine Force (FMF).

b. Operational Test Readiness Review (OTRR). The OTRR is chaired and conducted by the Director, MCOTEA prior to each OT. The purpose of the OTRR is to determine the readiness of a system, support packages, instrumentation, test planning, and test participants to support the OT. It includes the identification of any problems which may impact the start or

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proper execution of the OT, and to make any required changes to test plans, resources, training, or equipment. Participants normally include representatives from MCOTEA, MARCORSYSCOM, MCCDC and the FMF Test Director (TD).

c. Funding for T&E. T&E costs are funded from different appropriations depending on the type of test and the material and services used. Costs associated with Developmental Testing (DT) and OT, including special command and support costs, test articles for initial OT&E, in-production ammunition and tactical missiles, and the costs of setting up the limited production line, are normally funded from Research, Development, Test and Evaluation (RDT&E) appropriations. If out-of-production ammunition and tactical missiles are being used to support a test, those items will be taken from stock and not charged to RDT&E appropriations. Low Rate Initial Production test articles are funded from either Procurement, Marine Corps (PMC) or RDT&E appropriations. Costs for personnel and command support incident to Follow-on Operational Test and Evaluation are funded with Operations and Maintenance, Marine Corps appropriations.

d. Joint Test and Evaluation (JT&E). JT&E is a nonacquisition program sponsored and funded by the Office of the Secretary of Defense (OSD) to examine joint service tactics and doctrine. The purpose of JT&E is to bring two or more Military Services together in order to evaluate technical or operational concepts; to provide information on systems requirements and improvements; to examine systems interoperability; to develop and analyze testing methodologies; or to evaluate technical or operational performance under realistic conditions of interrelated or interacting weapons systems. The basic framework for conducting JT&E is contained in DoD Manual 5000.2-M-1.

6. T&E Documentation. Effective T&E depends on timely availability of source documentation from which test issues and measurable test criteria are developed or extracted. The following documents contain information critical to the effective planning and conduct of T&E.

a. TEMP. The TEMP is the single most important T&E document. MARCORSYSCOM develops the TEMP with the exception of Part IV, Operational Test and Evaluation Outline, which is prepared by MCOTEA. Both work to resolve any issues and integrate the TEMP outline to provide the Program Summary (Part II), and the T&E Resource Summary (Part V). Format requirements for the TEMP are provided in Part 7, reference (b). After approval by the MDA, any changes to the TEMP will be coordinated with organizations and codes by MARCORSYSCOM and forwarded to the MDA with appropriate recommendation.

b. Test Planning Document (TPD). The TPD, normally released in message format, serves as the primary document for informing the FMF of the requirement to support T&E. It provides an estimate of resources required for any test using FMF personnel or equipment, and is required for all OT&E, for combined DT&E and OT&E, tests of concepts, and for tests of training devices developed with the system under evaluation (standard training devices). Developed and issued by MCOTEAE with input from the PM, the TPD should be completed early enough to permit allocation of FMF resources.

c. Detailed Test Plan (DTP). The DTP, developed by MARCORSYSCOM for Government performed DT&E and by MCOTEAE for OT&E, is a set of explicit instructions for directing how every phase of a test, particularly test control and data collection is to be conducted. The size and complexity of the DTP will be a function of the system being tested, the amount and adequacy of previous testing, and the type of test being conducted. Additionally, it describes threats or targets the system is expected to encounter during the operational life of the system, detailed target configurations and stowage plans, identification of test limitations, and any differences between the tested system and the system to be fielded. Any contractor developed DTP's will be developed and approved in accordance with the contract provisions.

d. Failure Definition and Scoring Criteria (FD/SC). The FD/SC document serves as a guideline in classifying test incidents. It should be published before the start of DT&E and is required prior to the start of OT&E. The Director, MCOTEAE assisted by COMMARCORSYSCOM, and Commanding General (CG) MCCDC will prepare the FD/SC.

e. Test Support Package (TSP). Originated and published by the CG MCCDC with assistance from MARCORSYSCOM, the TSP is used by MCOTEAE. Critical elements of the TSP are an approved threat scenario, a Concept of Employment (COE), an organizational structure (tables of organization and tables of equipment), a logistic support concept and a training concept. The Integrated Logistic Support Plan (ILSP), Operational Requirements Document (ORD), and TEMP are also used to prepare the TSP.

f. FMF Test Report (TR). The FMF TR is written by the TD following completion of the OT. It addresses the collection, organization, and processing of information derived from the operational test and is a key source of information from which the Independent Evaluation Report (IER) is written. It is forwarded via the appropriate CG FMF, to arrive at MCOTEAE 30 days after the end of the test. The format for the FMF TR is provided by MCOTEAE.

g. IER. The Director, MCOTEA has responsibility for drafting and publishing the IER within 120 days after completion of OT&E. The IER provides an independent evaluation of the operational effectiveness and suitability of a system to CMC and Program Decision Meeting (PDM) members. The IER highlights those issues that have been resolved and lists issues that require further testing.

h. Test Threat Support Plan (TTSP). The MCIC will prepare a TTSP for each developmental and operational test. The TTSP will be based on the System Threat Assessment Report (STAR) or System Threat Assessment (STA) and will be shaped by requirements derived from the TEMP and TSP. The TTSP will include all threat data required to support testing.

i. Five-Year Master Test Plan (FYMTP). The FYMTP projects all known Marine Corps OT&E resource requirements, including those for multiservice tests, during the plan period. It is published annually, in message format with quarterly updates, by the Director, MCOTEA.

j. Interoperability Testing and Certification. Interoperability testing consists of two major areas, Marine Corps unique Interoperability Testing and Joint Service Interoperability Testing. Both types of testing are conducted to ensure the interoperability between command and control systems. Interoperability testing determines whether or not equipment will work together for given interfaces. Marine Corps unique interfaces are tested by MARCORSYSCOM (Marine Corps Tactical Systems Support Activity (MCTSSA)), and are done during DT&E. Joint Service Interoperability Testing tests interfaces across joint links and is also done during DT&E by the Joint Interoperability Test Center at Fort Huachuca, AZ. The PM shall have the tests completed and the system interoperability certified prior to a Milestone III decision in accordance with reference (e).

k. External Airlift Transportation (EAT) Certification. The COMMARCORSYSCOM has responsibility for the EAT certification or testing of all items of equipment whose ORD specifies external helicopter lift. EAT certification must be performed as part of the system DT&E. Failure to obtain EAT certification will constitute a test limitation during OT&E and operational use.

7. Safety in T&E. COMMARCORSYSCOM will assure that the TEMP addresses health hazard and safety critical issues to provide data to validate the results of systems safety analyses. When normal testing cannot demonstrate safe system operation, special safety tests and evaluations will be prepared and monitored.

a. Safety Assessment Report (SAR). A SAR is a comprehensive evaluation of the safety risks being assumed prior to test or

operation of the system or at contract completion. It identifies all safety features of the system, design and procedural hazards that may be present in the system being tested, and specific procedural controls and precautions that should be followed. Amplifying information on the SAR can be found in MIL-STD-882B.

b. Safety Release (SR). A SR is a formal document issued to a test agency prior to any testing involving Government personnel. Each SR describes the specific hazards of the system or item based on test results, inspections, or system safety analyses. Technical and operational limits and precautions are included. The data is used by the test agency to integrate safety into test controls and procedures and to determine if the test objectives can be met within these limits.

c. Certification of Equipment to be Safe and Ready for DT&E. A SR is required before Government personnel will operate developmental equipment during DT&E. The SR is based upon the contractor or material developer's SAR. The following procedures apply:

(1) The contractor or material developer sends the SAR and any additional comments to the PM 60 days prior to the start of testing, certifying that the system is safe to test.

(2) Tests involving Government personnel will not begin until the SAR has been received, reviewed, and accepted by the PM.

(3) For conventional ammunition a formal review by the Navy's Weapon Systems Explosive Safety Review Board (WSESRB), or its other military service equivalent, is required prior to any testing (DT or OT) that involves operation of the weapon system by Government personnel. Additional information on the WSESRB can be found in reference (f) or by contacting the MARCORSYSCOM PM for Ammunition.

(4) Tests of equipment or systems involving lasers or lithium batteries must be reviewed by the Navy Laser Safety Review Board or Navy Lithium Battery Safety Review Board, respectively.

(5) Following acceptance of the SAR, and any required reviews by safety boards, the PM will certify the system safe for DT&E by Government personnel under the conditions or limitations specified in the SR issued to the test organizations.

d. Certification of Equipment to be Safe and Ready for OT&E. To prevent injuries to Government personnel it is essential that not only test articles, but also any required Government Furnished Equipment be safe and ready prior to the start of OT&E. This

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certification is provided by COMMARCORSYSCOM to the Director, MCOTEA in the form of a formal SR with the contractor or material developer's SAR, as an enclosure. In addition to the SR, the certification includes, but is not limited to the following conditions:

(1) The system and its components accurately represent the size, shape, weight, and handling characteristics of the system expected to be procured.

(2) DT&E objectives have been achieved. All identified failures and deficiencies, to include those identified in previous OT have been corrected. If not corrected, the status of each failure or deficiency is adequately described. Also, DT&E objectives not met or only partially met shall be highlighted.

(3) The logistic support which should be used during OT&E but which will not be used with the system when fielded (e.g., contractor provided depot level maintenance).

(4) Any deviation in the expected reliability of the system that differs from the requirements documents.

(5) The software has met all DT requirements per reference (g). DT requirements not met or only partially met shall be highlighted.

(6) The system is safe to use in accordance with the COE. Any restrictions to safe employment shall be stated.

(7) The COE as provided in the TSP is still valid or that changes are necessary. Changes shall be identified.

8. Action

a. CMC and Headquarters Marine Corps Staff

(1) CMC. T&E in the system acquisition process directly supports the CMC's responsibilities for ensuring the readiness and mission capability of the FMF. The CMC will promulgate service policies, procedures, and requirements for T&E of Marine Corps programs to include JT&E.

(2) Deputy Chief of Staff for Programs and Resources. Specific T&E responsibilities include:

(a) Provides oversight of programming activities related to DT&E, OT&E, and JT&E.

(b) Provides budgeting action for PMC and Operation and Maintenance funds for developing systems.

(c) Coordinate with COMMARCORSYSCOM to ensure that JT&E budgetary and programmatic decisions support JT&E and the Marine Corps mission and budget.

(3) Deputy Chief of Staff for Manpower and Reserve Affairs (DC/S M&RA). After consultation with COMMARCORSYSCOM and the Director, MCOTEA, the DC/S M&RA shall:

(a) Oversee manpower and personnel requirements for Marine Corps participation in JT&E.

(b) When requested by Director, MCOTEA, assign a Deputy Test Director for multi-service OT&E of Acquisition Category (ACAT) I and certain ACAT II programs.

(c) When requested by the Director, MCOTEA, assign a TD for OT&E of ACAT I and certain ACAT II programs.

(d) When requested by COMMARCORSYSCOM, and coordination has been made with the structure sponsor of those units that will benefit and manning compensation has been resolved, assign a Deputy Test Director for JT&E approved programs.

(4) Deputy Chief of Staff for Installations and Logistics (DC/S I&L). The DC/S I&L is responsible for promulgation of all logistics policy. Specific T&E responsibilities include:

(a) Coordinate with COMMARCORSYSCOM to ensure a T&E representative is provided to coordinate with other military service counterparts at all Joint Commanders Group for T&E (JCG(T&E)) meetings. The Director, MCOTEA will act in an advisory capacity.

(b) Review, assess, and comment on NATO standardization agreements other T&E matters dealing with Foreign Military Sales after consultation with COMMARCORSYSCOM.

(5) Director, MCIC. The Director, MCIC is responsible for the promulgation of all intelligence data and System Threat Assessments. Specific T&E responsibilities include:

(a) Provide the CG MCCDC, COMMARCORSYSCOM, Marine Corps Direct Reporting Program Managers (DRPM), and Director, MCOTEA with a STAR for ACAT I programs for which the Marine Corps is the lead service, and ensure that it is validated and updated annually for all active programs.

(b) Provide the CG MCCDC, COMMARCORSYSCOM, Marine Corps DRPM's, and Director, MCOTEA with a STA and Intelligence Report (IR) for all ACAT II, III, and IV programs which affect

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combat capability or a written statement that a STA and IR are not required for those systems for which there is no threat.

(c) Provide PM's and project officers with periodic Science and Technology intelligence updates and assessments related to their programs.

(d) Provide COMMARCORSYSCOM, Marine Corps DRPM's, and Director, MCOTEA with a TTSP for developmental and operational testing.

(e) Provide a representative to attend program review and TIWG meetings as required.

b. CG MCCDC. CG MCCDC has primary responsibility for Marine Air-Ground Task Force (MAGTF) requirements. Other principal combat development responsibilities include: develop concepts, plans, and doctrine; identify requirements for changes to doctrine, training, MAGTF structure, and material; and serve as the MAGTF proponent. CG MCCDC shall:

(1) Develop the Mission Needs Statement and ORD from FMF requirements.

(2) Develop the COE and Mission Essential Functions for proposed systems.

(3) In coordination with the COMMARCORSYSCOM and Marine Corps DRPM's provide the TSP to Director, MCOTEA, 1 year prior to scheduled OT start.

(4) Provide a representative to attend program reviews, TIWG's, and OTRR's.

(5) Request the STAR from the MCIC for ACAT I programs for which the Marine Corps is the lead service, and ensure that it is validated and current prior to each milestone decision review beginning with Milestone I. A STA will also be requested for all ACAT II, III, and IV programs.

(6) In coordination with COMMARCORSYSCOM; the Marine Corps DRPM's; and Director, MCOTEA, provide a representative to assist in determining program FD/SC for each program under development and provide a voting member for scoring conferences.

(7) Provide representatives to the annual OT&E planning conference.

c. COMMARCORSYSCOM. COMMARCORSYSCOM has the authority, responsibility, and accountability for all assigned programs, including the DT&E portions and life cycle management, subject to

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approval by the Assistant Secretary of the Navy (Research, Development and Acquisition), the Department of the Navy Acquisition Executive. Day-to-day management of DT&E is normally carried out by the PM's in the MARCORSYSCOM. COMMARCORSYSCOM shall:

(1) Develop and promulgate policies, procedures, and requirements for DT&E within the Marine Corps.

(2) Develop and promulgate service policies, procedures, and requirements for Live Fire Test and Evaluation (LFT&E).

(3) Serve as the sponsor for the revision and maintenance of this Order.

(4) Ensure that the DT of all assigned programs is effectively and safely planned, conducted, evaluated, and reported.

(5) Program and budget DT&E based on requirements provided by PM's, and OT&E based on requirements submitted by MCOTEA.

(6) Provide service points of contact for JT&E and LFT&E.

(7) Consolidate and process MARCORSYSCOM Quarterly Requests for use of naval fleet assets in support of RDT&E requirements.

(8) Provide a representative to the JCG(T&E) meetings.

(9) Represent the Marine Corps in all Joint DT&E matters.

(10) Manage the service DT&E Activities, to include the Light Armored Vehicle Test Directorate, the Amphibious Vehicle Test Directorate, and MCTSSA.

(11) Provide the Director, MCOTEA and Director, MCIC with a quarterly listing of all development programs by project title and ACAT.

(12) Ensure required DT&E documentation is prepared, staffed, and approved prior to designated Milestones.

(13) Maintain review or approval authority over TEMP's for all assigned programs and those multiservice programs for which the Marine Corps is the lead service.

(14) In coordination with CG MCCDC and Director, MCOTEA, provide a representative to assist in determining FD/SC for each

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program under development, and provide a voting member for scoring conferences.

(15) Establish and chair TIWG's for all assigned programs and those multiservice programs for which the Marine Corps is the lead service.

(16) Provide CG MCCDC with information necessary to develop the TSP for new programs, on request.

(17) Provide the Director, MCOTEA with the ILSP, Computer Resources Life Cycle Management Plan (CRLCMP), and upon request, the software documentation per reference (g).

(18) Coordinate with the Director, MCOTEA for consolidating DT&E and OT&E scheduling and support, and ensure DT and OT are combined whenever possible to conserve resources.

(19) Provide a representative for the OTRR following DT.

(20) Certify that systems are safe and ready for DT&E and OT&E.

(21) When acting as the MDA for ACAT IV programs, determine if an OT is required to support a Milestone III decision.

(22) Provide representatives at PDM's for all DT&E matters.

(23) Maintain liaison with counterparts in other military services, Government agencies, private industry, universities, and foreign countries on all matters pertaining to DT&E.

(24) Provide representatives to attend the annual OT&E planning conference.

(25) Manage the Marine Corps EAT Certification Program.

(26) Manage the Marine Corps Foreign Comparative Test Program.

(27) Maintain a T&E Technical Information Center.

d. Director, MCOTEA. Reference (h) establishes MCOTEA as the Marine Corps independent operational T&E activity responsible for adequate testing, objective evaluation, and independent reporting in support of the Marine Corps acquisition process. The Director, MCOTEA shall:

(1) Ensure that the OT of all ACAT I through ACAT IV programs is effectively planned, conducted, evaluated, and reported.

(2) Develop and recommend OT&E policy to CMC, and prepare and maintain Marine Corps orders on OT&E.

(3) Develop and promulgate Marine Corps OT&E methodology to include the testing, verification, and evaluation of ILSP and the CRLCMP for the system undergoing OT&E.

(4) Plan, program, and budget for MCOTEA's participation in OT&E and provide a budget request to COMMARCORSYSCOM for inclusion in the Program Objective Memorandum request.

(5) Coordinate the scheduling of resources for OT requiring FMF support through the FYMTP published annually with quarterly updates.

(6) Coordinate with the CG MCCDC and COMMARCORSYSCOM on the use in OT&E of Marine Corps approved threat, scenarios, doctrine, training programs, and organizational structure.

(7) In coordination with CG MCCDC and COMMARCORSYSCOM, host and chair a TIWG for determining FD/SC for each program and establish procedures for conducting scoring conferences. Provide chairman/voting member for scoring conferences.

(8) Coordinate continuously with COMMARCORSYSCOM on the preparation of T&E plans, multiservice programs, test scheduling, sharing of test resources and test results, and ensure DT and OT are combined whenever possible to conserve resources.

(9) Prepare Part IV of the TEMP. Coordinate with COMMARCORSYSCOM in the preparation of Parts II and V of the TEMP.

(10) Request from CMC the assignment of a TD for ACAT I and certain ACAT II programs.

(11) Task the FMF and other commands in matters related to OT&E by publishing a TPD.

(12) Provide representatives to attend TIWG's.

(13) Determine the number of test articles required for OT&E.

(14) Coordinate with COMMARCORSYSCOM to minimize test limitations. When significant test limitations are identified, advise MDA of risk associated in the procurement decision.

(15) Prepare documentation for OT&E.

(16) Assist in planning of and monitor DT&E; review DT&E results to obtain information that will contribute to the accomplishment of OT&E.

(17) Manage those OSD directed multiservice T&E's for which the Marine Corps is tasked, by preparing and staffing the Marine Corps position on test documents; recommend to CMC the selection of the FMF unit to support joint testing; provide technical support to the Marine Corps Joint TD in the form of assistance in test planning, direction, and reporting; ensure the quality control of the Marine Corps participation; and conduct an independent evaluation as required.

(18) Monitor new system software Independent Verification and Validation and Problem/Change Reports.

(19) Chair and conduct an OTRR for determining a program's readiness to proceed with OT&E.

(20) Supervise the OT&E then evaluate and analyze test results. Prepare and provide directly to the CMC an IER for all OT&E with a recommended distribution to include CG MCCDC, COMMARCORSYSCOM, and Marine Corps DRPM's.

(21) Brief initial OT&E results at PDM's and Defense Acquisition Boards as required.

(22) Coordinate with other military services in arranging support for Marine Corps OT&E's, and coordinate Marine Corps support for other military services OT&E's.

(23) Advise the JCG(T&E) on OT&E matters.

(24) Call and chair the annual OT&E planning conference.

(25) Coordinate with other military service OTA's and, when required, recommend to CMC the exchange or designation of liaison officers.

(26) Maintain direct liaison with Director, DT&E, the FMF for OT&E matters, and other military activities and commands as required.

e. Fleet Marine Forces. The Commanding Generals, Fleet Marine Force Pacific (FMFPac) and Fleet Marine Force Atlantic (FMFLant) shall:

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(1) Designate FMF test coordinators in the headquarters of FMFPac and FMFLant, and at each division or wing headquarters as a focal point for all T&E matters.

(2) In coordination with COMMARCORSYSCOM and Director, MCOTEA, support the T&E of new concepts, equipment, and systems.

(3) Provide a TD for the OT&E of ACAT II, III, and IV programs. The TD, as the representative of the FMF, will write the OT report and submit it to MCOTEA via the CG of the appropriate FMF within 30 days of completion of the test.

(4) Provide personnel and equipment to participate in OT&E as required.

(5) Provide personnel and equipment to participate in JT&E programs as required.

(6) Inform COMMARCORSYSCOM and Director, MCOTEA on any T&E matters affecting personnel, equipment, or systems issued to the operating forces.

(7) Provide representatives to the annual OT&E planning conference hosted by MCOTEA.

(8) Ensure TD representation to the OTRR.

9. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.



W. E. BOOMER
Assistant Commandant
of the Marine Corps

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